SYPHILIS

Syphilis is a contagious sexually transmitted disease caused by the spirochete *Treponema pallidum*. The disease, which may be acute or chronic, is characterized clinically by a primary lesion (chancre), a secondary eruption involving skin and mucous membranes, long periods of latency, and late lesions of skin, bone, viscera, the central nervous system, and the cardiovascular system. Fetal infection occurs with high frequency in untreated early infections of pregnant women. Transmission occurs by direct contact with infectious exudates during sexual contact. Transmission may occur through blood transfusion if the donor is in the early stages of the disease. Fetal infection occurs through placental transfer or at delivery.

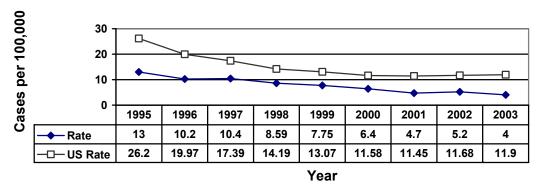
Laboratory Criteria for Confirmation:

• Laboratory confirmation of *T.pallidum* by darkfield microscopy, by reactive serology, or by clinical manifestations of acquired infection.

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Kentucky	2003	Rate per 100,000	U.S. Rate ((2003)) per 100,000*
Cases	160	4.0		11	1.9
(Early and	Late)				
Cases by C	Gender		Cases by Race]	Rate per 100,000
Female	81	3.9	African/American	(75)	25.3
Male	78	3.9	Hispanics	(9)	5.6
			Caucasian	(41)	1.1

Syphilis Incidence, Kentucky 1995-2003

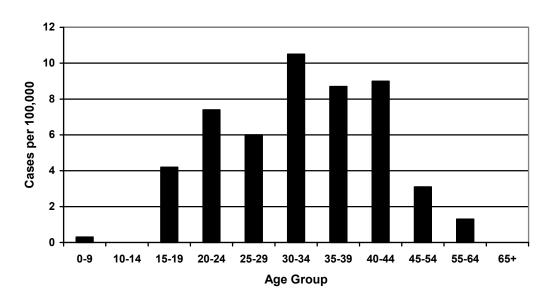


^{*}from Sexually Transmitted Disease Surveillance 2003. CDC-HHS

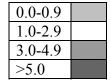
Syphilis is defined by distinct stages. Primary, secondary, and early latent syphilis are considered early syphilis, while late latent and late syphilis are defined as syphilis of greater than one year's duration. Congenital syphilis is acquired in utero.

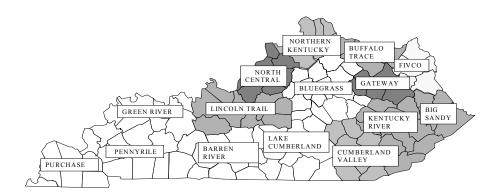
Cases	1996	1997	1998	1999	2000	2001	2002	2003
Primary	55	44	41	34	36	18	29	8
Secondary	99	91	65	67	49	30	59	25
Early	126	122	101	81	62	38	49	43
Latent								
Total	280	257	207	182	147	86	137	76
Early								
Late Latent/late	113	141	127	120	103	104	72	83
Congenital	2	6	4	3	3	1	3	1
Total Cases	395	404	338	305	253	191	212	160

Syphilis, Age-Specific Incidence, Kentucky 2003



Syphilis by District Annual Incidence Rate 2003 Per 100,000





District	Rate per		
	100,000		
Purchase	2.1		
Pennyrile	1.9		
Green River	2.4		
Barren River	0.4		
Lincoln Trail	3.3		
North Central	12.3		
Northern	0.5		
Kentucky			
Buffalo Trace	0.0		
Gateway	5.2		
Fivco	2.9		
Big Sandy	0.0		
Kentucky River	0.0		
Cumberland	0.8		
Valley			
Lake	1.0		
Cumberland			
Bluegrass	2.5		

The North Central District reported the highest rate of 12.3 cases per 100,000 and the Gateway District followed with 5.2 cases per 100,000.

Jefferson County, in the North Central District, has the largest urban population in the state. In 2003, Jefferson County reported 14.6 cases of Syphilis per 100,000, a 28.0% decrease in rate from the previous year.

The syphilis (all stages) rate for the entire state of Kentucky has steadily decreased for the last ten years. The U.S. rate for the same time period has also shown a dramatic decline but has leveled off during the past four years.